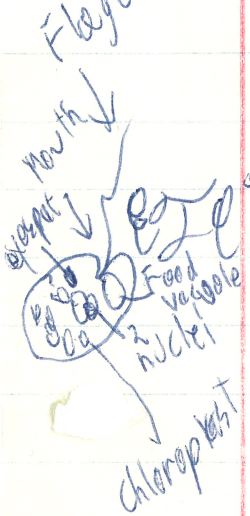
Mark Twain
TB3-323

Alexander Sorgyone
October 17, 1988

Aim: How do organ systems control our activities.
Cells - The smallest parts of a living thing that can carry on all life functions.
Tissue - A group of similar cells that work together
Organs - A group of similar ~~tissue~~ tissue that work together
Ex: lungs, liver, brain, heart, kidneys, spleen
System - Various related ~~organs~~ nerve muscle that work together
Blood vessels - Arteries, veins, capillary
Circulatory system
Excretory system - rids the organism of waste.
Respiratory system - brings oxygen into the lungs, O2 combines with red blood cells, carries O2 through body. Carries CO2.
Digestive system - breaks food down into usable substance
Nervous system - Transmits messages throughout the body.
Muscular system - Contracts, relaxes so the body move.
Skeletal system - Supports & gives shape to the body.
All the systems working together, an organism is produced.
Euglena



Mark Twain
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Alexander Jozwiak
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Aim: What organic chemicals do foods contain?

Elements	Symbols
Carbon	C
Oxygen	O
Hydrogen	H
Nitrogen	N
Sulfur	S
Iron	Fe
Calcium	Ca
Phosphorus	P
Potassium	K
Sodium	Na

$C_{12}H_{22}O_{11}$ complex sugar - table sugar

$C_6H_{12}O_6$ simple sugar - fruit sugar

Starch has the same elements as sugar, C, H, O, but is more complex. Sugars & starches are carbohydrates. For our body to use starch, it must be broken down into complex sugar. For use complex sugar, it must be broken into simple sugar.

Ex: Carbohydrates: spaghetti, pasta, potatoes, tomatoes,

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We have 3 pairs of salivary glands. Saliva helps moisten the food and begins breaking down starches. Starches become complex sugars. Epiglottis prevents food from entering the trached (lungs). The esophagus is a connection between the mouth and stomach. The stomach stores & churns the food. The small intestine is the place where most digestion takes place. ~~Reabsorbs~~ The large intestine reabsorbs water, vitamins, minerals. The rectum stores undigested food (waste) until it exits through the anus. The stomach changes food into chime. If the large intestine reabsorbs ~~doesn't~~ too much (constipation) or too little (diarrhea) you get problems.